

#5



1

SEQUENCE LISTING

<110> JIAO, JIN-AN
WONG, HING C.

<120> ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
OF USE THEREOF

<130> 71758/46943-CIP2

<140> 09/990,586

<141> 2001-11-21

<150> 09/293,854

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<160> 102

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gaa agt gtc acc atc aca tgc ctg gca agt cag acc att gat aca tgg	96
Glu Ser Val Thr Ile Thr Cys Leu Ala Ser Gln Thr Ile Asp Thr Trp	
20 25 30	
tta gca tgg tat cag cag aaa cca ggg aaa tct cct cag ctc ctg att	144
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Gln Leu Leu Ile	
35 40 45	
tat gct gcc acc aac ttg gca gat ggg gtc cca tca agg ttc agt ggc	192
Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly	
50 55 60	
agt gga tct ggc aca aaa ttt tct ttc aag atc agc agc cta cag gct	240
Ser Gly Ser Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala	
65 70 75 80	
gaa gat ttt gta aat tat tac tgt caa caa gtt tac agt tct cca ttc	288
Glu Asp Phe Val Asn Tyr Tyr Cys Gln Gln Val Tyr Ser Ser Pro Phe	
85 90 95	
acg ttc ggt gct ggg acc aag ctg gag ctg aaa	321
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 35 40 45
 Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala
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 Glu Asp Phe Val Asn Tyr Tyr Cys Gln Gln Val Tyr Ser Ser Pro Phe
 85 90 95
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
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 tca gtg cag gta tcc tgc aag act tct ggt tac tca ttc act gac tac 96
 Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Asp Tyr
 20 25 30
 aac gtg tac tgg gtg agg cag agc cat gga aag agc ctt gag tgg att 144
 Asn Val Tyr Trp Val Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 gga tat att gat cct tac aat ggt att act atc tac gac cag aac ttc 192
 Gly Tyr Ile Asp Pro Tyr Asn Gly Ile Thr Ile Tyr Asp Gln Asn Phe
 50 55 60

aag ggc aag gcc aca ttg act gtt gac aag tct tcc acc aca gcc ttc 240
 Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Ala Phe
 65 70 75 80

atg cat ctc aac agc ctg aca tct gac gac tct gca gtt tat ttc tgt 288
 Met His Leu Asn Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
 85 90 95

gca aga gat gtg act acg gcc ctt gac ttc tgg ggc caa ggc acc act 336
 Ala Arg Asp Val Thr Thr Ala Leu Asp Phe Trp Gly Gln Gly Thr Thr
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Asn Val Tyr Trp Val Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Tyr Ile Asp Pro Tyr Asn Gly Ile Thr Ile Tyr Asp Gln Asn Phe
 50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Ala Phe
 65 70 75 80

Met His Leu Asn Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys
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 100 105 110

Leu Thr Val Ser Ser
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 Ala Ala Thr Asn Leu Ala Asp
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Gly

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Pro Gln Leu Leu Ile Tyr
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<213> Homo sapiens

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Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Ser
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Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
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Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
35 40

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<400> 29

Gln Ile Gln Leu Val Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala
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Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly
35 40

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<213> Homo sapiens

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Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu
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Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg
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Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
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<400> 57
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<210> 70

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<211> 33

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<223> Description of Artificial Sequence: Primer

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caggagctga ggagattgcc ctggtttctg cag

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<210> 72

<211> 79

<212> PRT

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<400> 72

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Gln	Ser	Ala	Ser	Leu	Gly
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Glu	Ser	Val	Thr	Ile	Thr	Cys	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ser
			20					25					30		

Pro	Gln	Leu	Ile	Tyr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser
		35					40					45			

Gly	Thr	Lys	Phe	Ser	Phe	Lys	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Phe
	50					55						60			

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<212> PRT

<213> Homo sapiens

<400> 73

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Glu Ser Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala Glu Asp Phe
 50 55 60

Val Asn Tyr Tyr Cys Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys
 65 70 75

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<213> Homo sapiens

<400> 74

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Gln Ser Ala Ser Leu Gly
 1 5 10 15

Glu Ser Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala Glu Asp Phe
 50 55 60

Val Asn Tyr Tyr Cys Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 75

<211> 79

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<213> Homo sapiens

<400> 75

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala Glu Asp Phe
 50 55 60

Val Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

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 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Gln Ser Ala Ser Leu Gly
 1 5 10 15

Glu Ser Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Lys Phe Ser Phe Lys Ile Ser Ser Leu Gln Ala Glu Asp Phe
 50 55 60

Val Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 77
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<400> 77
 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Gln Ser Ala Ser Leu Gly
 1 5 10 15

Glu Ser Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Asp Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60

Val Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 78
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<400> 78

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Gln Ser Ala Ser Leu Gly
 1 5 10 15

Glu Ser Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Asp Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60

Ala Thr Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 79

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<400> 79

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Asp Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60

Ala Thr Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 80

<211> 79

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<400> 80

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45

Gly Thr Asp Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60

Ala Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 81
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 20 25 30
 Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45
 Gly Thr Lys Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60
 Ala Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 82
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 82
 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 20 25 30
 Pro Gln Leu Ile Tyr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 35 40 45
 Gly Thr Lys Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 50 55 60
 Ala Asn Tyr Tyr Cys Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 65 70 75

<210> 83
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 83
 Glu Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Ser Thr Thr Ala Phe Met His Leu Asn Ser Leu
 50 55 60

Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Leu Thr Val Ser Ser
 85

<210> 84

<211> 87

<212> PRT

<213> Homo sapiens

<400> 84

Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Ser Thr Thr Ala Phe Met His Leu Asn Ser Leu
 50 55 60

Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 85

<211> 87

<212> PRT

<213> Homo sapiens

<400> 85

Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Ser Thr Thr Ala Phe Met His Leu Asn Ser Leu
 50 55 60

Thr Ser Asp Asp Ser Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 86
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 86
 Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Ser Thr Thr Ala Phe Met His Leu Asn Ser Leu
 50 55 60

Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 87
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 87
 Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Ser Thr Thr Ala Phe Met Glu Leu Ser Ser Leu
 50 55 60

Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 88
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 88
 Gln Ile Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Gln Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 89
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 89
 Gln Met Gln Leu Gln Gln Ser Gly Gly Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 90
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 90
 Gln Ile Gln Leu Val Gln Ser Gly Gly Glu Leu Val Lys Pro Gly Ala
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 91
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 91
 Gln Ile Gln Leu Val Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 92
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 92
 Gln Ile Gln Leu Val Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60

Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 93

<211> 87

<212> PRT

<213> Homo sapiens

<400> 93

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60

Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 94

<211> 87

<212> PRT

<213> Homo sapiens

<400> 94

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Ala
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30

Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45

Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60

Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80

Thr Thr Val Thr Val Ser Ser
 85

<210> 95
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 95
 Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 96
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 96
 Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Val Val Lys Pro Gly Ala
 1 5 10 15
 Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Trp Val
 20 25 30
 Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile Gly Lys Ala Thr Leu
 35 40 45
 Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu
 50 55 60
 Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Gly Gln Gly
 65 70 75 80
 Thr Thr Val Thr Val Ser Ser
 85

<210> 97
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 97

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 98

<211> 332

<212> PRT

<213> Homo sapiens

<400> 98

Glu Phe Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser
 1 5 10 15
 Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys
 20 25 30
 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 35 40 45
 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 50 55 60
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 65 70 75 80
 Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
 85 90 95
 Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
 100 105 110
 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe
 115 120 125
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 130 135 140
 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
 145 150 155 160

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 165 170 175
 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 180 185 190
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 195 200 205
 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
 210 215 220
 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
 225 230 235 240
 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 245 250 255
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 260 265 270
 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 275 280 285
 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
 290 295 300
 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 305 310 315 320
 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 325 330

<210> 99
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 99
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 100
 <211> 329
 <212> PRT
 <213> Homo sapiens

<400> 100
 Glu Phe Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys
 1 5 10 15
 Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys
 20 25 30
 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 35 40 45
 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 50 55 60
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 65 70 75 80
 Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val
 85 90 95
 Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
 100 105 110
 Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 115 120 125
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 130 135 140
 Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr
 145 150 155 160
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 165 170 175
 Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 180 185 190
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 195 200 205
 Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 210 215 220
 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met
 225 230 235 240
 Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro
 245 250 255

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
 260 265 270

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
 275 280 285

Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val
 290 295 300

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
 305 310 315 320

Lys Ser Leu Ser Leu Ser Leu Gly Lys
 325

<210> 101

<211> 17

<212> PRT

<213> Homo sapiens

<400> 101

Tyr Ile Asp Pro Tyr Asn Gly Ile Thr Ile Tyr Asp Gln Asn Leu Lys
 1 5 10 15

Gly

<210> 102

<211> 38

<212> PRT

<213> Homo sapiens

<400> 102

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Gln Ser Ala Ser Leu Gly
 1 5 10 15

Glu Ser Val Thr Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 20 25 30

Pro Gln Leu Leu Ile Tyr
 35